

From: Kenny Blake
To: [Rodriguez, Jose](#)
Cc: [Baker, JohnE](#); [Biggs, Tonia](#)
Subject: Re: #13 Significant Deficiency - Seal the Gap around the casing
Date: Friday, May 19, 2017 6:11:51 PM

Thanks Jose, I thought that would be the case. If the casing is extended upward 18" and there is room at the top could the outer casing be left open unsealed and the vent pipe extended upward and then turned with a 90 degree coupling towards the side then turned downward and screened?

I don't think that would be too difficult and the motor would possibly not have to be pulled. This is the toughest so far for us to solve. Thanks for the input - kb

FYI - I am out of the office Monday and Tuesday next week.

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On Fri, May 19, 2017 at 3:04 PM -0600, "Rodriguez, Jose" <Rodriguez.Jose@epa.gov> wrote:

Good Afternoon Kenny,
John told me you had a question about the existing vent on the Golf Course Well. Once you raise the casing and the well will still need a vent as it is currently being vented through the openings around the existing casing. According to the pictures the vent in question is currently capped. The vent will have to be extended outside of the casing extension to properly vent the well. You could discuss with your vendor leaving the existing vent in place, or removing it and installing a new vent on the casing extension, which you will need.

Thank you,
José G. Rodriguez
(214) 665-8087
Rodriguez.jose@epa.gov

From: Rodriguez, Jose
Sent: Wednesday, February 15, 2017 3:46 PM
To: Kenny Blake <kenny@cochitigolfclub.com>; Hall, Chelo <Hall.Chelo@epa.gov>
Cc: Jrivera@greenworksent.com; Baker, JohnE <Baker.JohnE@epa.gov>; Bresnahan, Meaghan <bresnahan.meaghan@epa.gov>
Subject: RE: #13 Significant Deficiency - Seal the Gap around the casing

Kenny,
I apologize for not responding to you earlier. One of the significant deficiencies is to raise the casing to at least 18 above the concrete pad. Of importance also is to maintain a good sanitary seal on the well casing. By just sealing the casing with caulk or epoxy, the sanitary seal would be at the top of the concrete pad, this would not address the issue raising the casing to 18 inches. In addition, because caulking and epoxy can shrink and deteriorate over time the sanitary seal would not be intact. This would not address the significant deficiencies.

You ask how you can address raising the casing, installing an air vent and maintaining a sanitary seal. Most vertical turbine pumps like the Golf Course Well are constructed to address this issue. We have discussed how you can raise the casing on the Golf Course well before. One option we have discussed is to get a steel pipe the same size of the casing and the height to the metal plate supporting the pump. If you cut the pipe in

half you can place it on the casing and around the discharge pipe. You can weld the pipe to the casing and then weld the two halves and then weld the casing to the metal plate supporting the pump motor. This will raise casing at least 18 inches above the concrete slab. The sanitary seal is now where the pump motor meets the support metal plate. You have to assure that there is a good sanitary seal at this point, assure that you have a good gasket between the two plates. For the vent you can cut a hole on the side of extended casing and weld a pipe, extend it to the side, make sure it is turned downward and is at least 18 inches above the concrete slab and install a 24 mesh screen. This is only one option. A well drilling company should be able to provide many more options.

If you have to use the Golf Course well you should have a chemical feed system to disinfect the water before providing water to the customers of Cochiti Lakes. As you mention installing or having a similar setup as you have at the Cochiti Lake. You do not need to have the sodium hypochlorite on site until you need it.

If you have any question please call me.

Thank you,

José G. Rodriguez

(214) 665-8087

Rodriguez.jose@epa.gov

From: Kenny Blake [<mailto:kenny@cochitigolfclub.com>]

Sent: Thursday, January 12, 2017 4:39 PM

To: Hall, Chelo <Hall.Chelo@epa.gov>

Cc: Rodriguez, Jose <Rodriguez.Jose@epa.gov>; Jrivera@greenworksent.com

Subject: RE: #13 Significant Deficiency - Seal the Gap around the casing

Chelo - I am having Jace Rivera who installed the golf course well pump bring some well people out to specifically address the comments from Jose below.

(Jace - Please see Jose's comments below)

Please remember that this well only supplies irrigation water (not disinfected water) for the golf course and Well 2 would only be used in an emergency situation if Well 1 failed - This happened once in the last 5 years.

I still understand that your recommendations must be done or this well must be taken off line for drinking water purposes. We just were focusing on all of the other deficiencies that were directly related to our drinking water supply.

Jose: Is it possible to create a sanitary seal by enclosing and sealing with caulk or epoxy the concrete as 2 sides are already encased in thick concrete? We simply would seal up the 2 exposed sides in an airtight fashion and make sure the well was properly vented.

If not we are determining how to properly: 1. vent the well, 2. Make sure there is a sanitary seal, 3. Make sure the casing extends 18" above the ground, and 4. Install the same disinfection system that we are using at Well 1 to be ready in the event that we need to use well 2 as an emergency back-up.

Please let me know any thoughts - kb

Kenny Blake PGA | Cochiti Community Development Corporation

Chief Executive Officer

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From: Hall, Chelo [<mailto:Hall.Chelo@epa.gov>]
Sent: Monday, January 09, 2017 12:15 PM
To: Kenny Blake
Cc: kenny_pin@pueblodecochiti.org; Gee, Randy
Subject: FW: #13 Significant Deficiency - Seal the Gap around the casing

Hello Kenny,

Below is a concern EPA has concerning the seal on the casing on #13 significant deficiency of the list. Please address accordingly and provide a photo when completed. When can EPA expect a correction on this significant deficiency? If you have any questions, please let me know.

Chelo Hall

From: Rodriguez, Jose
Sent: Monday, January 09, 2017 12:40 PM
To: Bresnahan, Meaghan <bresnahan.meaghan@epa.gov>; Lugo-Figueroa, Jose <lugo-figueroa.jose@epa.gov>
Cc: Baker, JohnE <Baker.JohnE@epa.gov>; Moreno, Miguel <Moreno.Miguel@epa.gov>; Ngo, Kim <Ngo.Kim@epa.gov>; Hall, Chelo <Hall.Chelo@epa.gov>
Subject: RE: #13 Significant Deficiency - Seal the Gap around the casing

Properly welding the metal plates to casing would be an appropriate method of assuring that the well has a good sanitary seal, however, the metal plates should create a good seal around the discharge pipe. According to the pictures submitted, it does not appear the metal plates, as welded, are creating a good sanitary seal. The metal plates around the discharge pipe do not appear to create a good sanitary seal. There appears to be a visible separation between the metal plates and the discharge pipe. The intention of the sanitary seal is to prevent anything, water, dust, insects, rodents, chemical contaminants from entering the well and aquifer, therefore, all openings should be properly sealed. In addition, the metal plate should be welded to the casing and it is not visible from these pictures. If the plates are welded to the discharge pipe and welded at the bottom to the casing please provide pictures.

Once the plates are properly welded and all openings sealed, the well will require a vent to allow for the exchange of air in the casing when the wells turns on an off. The well is currently being vent through the openings on the between the casing and the discharge pipe. The lack of a vent is cited #9 Significant Deficiency - Well 2 - Well does not have a vent. The vent should extend at least 18 inches from the concrete pad or ground level, be turned downward, and be screened with a 24 mesh screen.

Thank you,

José G. Rodriguez
(214) 665-8087

Rodriguez.jose@epa.gov

From: Bresnahan, Meaghan
Sent: Thursday, December 22, 2016 8:03 AM
To: Lugo-Figueroa, Jose <lugo-figueroa.jose@epa.gov>; Rodriguez, Jose <Rodriguez.Jose@epa.gov>
Cc: Baker, JohnE <Baker.JohnE@epa.gov>; Moreno, Miguel <Moreno.Miguel@epa.gov>
Subject: FW: #13 Significant Deficiency - Seal the Gap around the casing

From: Kenny Blake [<mailto:kenny@cochitigolfclub.com>]
Sent: Wednesday, December 21, 2016 5:33 PM
To: Hall, Chelo <Hall.Chelo@epa.gov>
Cc: Mark Swanson <mark@cochitigolfclub.com>; Bresnahan, Meaghan <bresnahan.meaghan@epa.gov>; Baker, JohnE <Baker.JohnE@epa.gov>
Subject: #13 Significant Deficiency - Seal the Gap around the casing

Chelo - #13 Significant Deficiency - Seal the Gap around the casing
Please see attached pictures - We addressed this issue by having our welder weld the plates pictured together plugging any holes and welding them shut also.
Thanks - kb

From: Hall, Chelo [<mailto:Hall.Chelo@epa.gov>]

Sent: Wednesday, November 30, 2016 1:14 PM

To: Kenny Blake

Cc: Mark Swanson; Bresnahan, Meaghan

Subject: RE: 11 EPA Mandates

Good afternoon Kenny,

Thank you for the report you provided below. Do you have a copy of the inspection reports on the tanks? If so, would you please forward to me?

I am following up on the remainder of the significant deficiencies. Can you provide a status on the remainder of those deficiencies?

Thank you.

Chelo

From: Kenny Blake [<mailto:kenny@cochitigolfclub.com>]

Sent: Saturday, November 12, 2016 10:49 AM

To: Hall, Chelo <Hall.Chelo@epa.gov>

Cc: Kenny Blake <kenny@cochitigolfclub.com>; Mark Swanson <mark@cochitigolfclub.com>

Subject: RE: 11 EPA Mandates

Chelo - I am out of town until next Tuesday - I will prepare an update on the remaining violations. We recently had our Tanks inspected as well - Thanks - kb

From: Hall, Chelo [<mailto:Hall.Chelo@epa.gov>]

Sent: Wednesday, November 02, 2016 1:52 PM

To: Kenny Blake

Cc: Georgina Atencio

Subject: RE: 11 EPA Mandates

Hi Kenny,

I am following up on the status for the remaining significant deficiencies. Would you please provide a status for the deficiencies?

Thank you.

Chelo Hall, Environmental Engineer

EPA Region 6 Tribal Drinking Water Enforcement Coordinator

Water Resources Section (6EN-WR)

Compliance Assurance and Enforcement Division

U.S. Environmental Protection Agency, Region 6

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Dallas, TX 75154-2733

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From: Kenny Blake [<mailto:kenny@cochitigolfclub.com>]

Sent: Tuesday, September 20, 2016 3:51 PM

To: Hall, Chelo <Hall.Chelo@epa.gov>

Cc: Georgina Atencio <georgina@cochitigolfclub.com>

Subject: RE: 11 EPA Mandates

Ok I understand and we will address immediately... but are your sure some of these are not the Pueblo's as item 17 addresses the Buffalo and Village water storage tanks. Those are describing the Pueblo's water tanks.

Regardless - we will begin addressing the additional issues listed.

Respectfully - kb

From: Hall, Chelo [<mailto:Hall.Chelo@epa.gov>]

Sent: Tuesday, September 20, 2016 1:36 PM

To: Kenny Blake

Subject: RE: 11 EPA Mandates

Kenny, the copy of the inspection report you received contained only 11 deficiencies; however, the copy I sent the Governor contained 21. I am so sorry for the confusion.

The copy machine did not copy all of the pages (significant deficiencies) for some

reason. Therefore, I am sending the full pages to the Corrective Compliance Plane for the Cochiti Lake Water System.

I must say that you really addressed many of the issues there! Good job!

If you have questions, please give me a call.

Chelo

214-665-2716

From: Kenny Blake [<mailto:kenny@cochitigolfclub.com>]

Sent: Friday, August 19, 2016 3:54 PM

To: Hall, Chelo <Hall.Chelo@epa.gov>

Subject: 11 EPA Mandates

Chelo - Please find attached the 11 EPA Mandates I will be referencing as I send attached pictures showing their resolution - Thanks - kb

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